

## SINGLE FEASIBLE SOURCE (SFS) APPROVAL REQUEST WORKSHEET

**TO:** David Nichols, Director of Transportation  
**CC:** Joseph Jones, Engineering Policy Administrator  
**FROM:** Joseph Rickman, District Traffic Engineer  
**RE:** Adaptive Signal Equipment – InSync System  
**DATE:** April 9, 2013

### **DESCRIPTION:**

Please specify the exact product/service your agency needs: InSync Traffic Adaptive System

Is this a one-time acquisition or an ongoing need to acquire this product/service? System will be installed at 6 intersection locations along the US60 corridor at Republic, MO within the Southwest District. It is possible that we will add additional locations in the future if our budget allows.

If ongoing, please specify the period for which the SFS is being requested: 2 years

Contractor name and vendor code: Rhythm Engineering, 12351 West 96th Terrace, Suite 107, Lenexa, KS 66215, 913-226-7664

Estimated amount of the SFS request: \$300,000

### **JUSTIFICATION:**

In the space provided below or on an attached page, please explain how the product/service described above satisfies one or more of the following SFS criteria (RSMo 34.044):

- a. Supplies are proprietary and only available from the manufacturer or a single distributor

This system is an adaptive traffic signal control system, which detects and collects vehicle data by processing video images and automatically optimizes the changing of traffic signals in response to real-time traffic demands. Unlike other traffic control systems that use common cycle lengths, this system uses principles of robotics and artificial intelligence to optimize traffic flow. This technology is only available from the above listed supplier.



(Approved By)

5-3-13

(Date)



## MEMORANDUM

Missouri Department of Transportation  
Traffic Division  
Southwest District

**TO:** David Nichols  
Director of Transportation

**CC:** Joseph Jones  
Engineering Policy Administrator

**FROM:** Joseph Rickman  
District Traffic Engineer

**DATE:** April 10, 2013

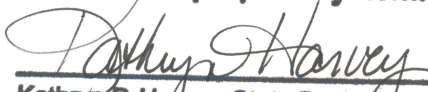
**SUBJECT:** Adaptive Signal Equipment  
InSync Adaptive Traffic Control System  
Public Interest Finding

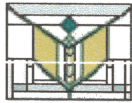
The Southwest District is requesting approval of a finding in the public interest to purchase and install the following adaptive traffic signal equipment: InSync Real-time Adaptive Traffic Control System manufactured by Rhythm Engineering.

This proposed system is an adaptive traffic signal control system which detects and collects vehicle data by processing video images and automatically optimizes the changing of traffic signals in response to real-time traffic demands. Unlike other traffic control systems that use common cycle lengths, this system uses principles of robotics and artificial intelligence to optimize traffic flow. This technology is only available from the above listed supplier.

Based on the unique capabilities of this system, we believe that it is in the public's best interest to purchase and deploy this equipment on the US 60 signalized corridor in Republic, MO. Approval of this request at your earliest convenience would be appreciated.

**I do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2), no equally suitable alternate exists for this patented or proprietary item.**

  
Kathryn P. Harvey, State Design Engineer



Re: Fw: InSync Adaptive Signal System - Public Interest Finding Request 

Michelle L Neuner to: Llans E Taylor

05/03/2013 11:23 AM

Cc: Julie C Stotlemeyer

Julie has no issues with the proposal.



Michelle Neuner, P.E.  
Traffic & Highway Safety Division  
573-751-4994  
michelle.neuner@modot.mo.gov

Llans E Taylor

Here you go. Thanks a bunch. Sorry for the rus...

05/03/2013 11:13:04 AM

From: Llans E Taylor/SC/MODOT  
To: Michelle L Neuner/SC/MODOT@MODOT,  
Date: 05/03/2013 11:13 AM  
Subject: Fw: InSync Adaptive Signal System - Public Interest Finding Request

Here you go. Thanks a bunch. Sorry for the rush.

Llans Taylor, P.E., A.V.S.  
Innovations Engineer  
573-751-7412  
Missouri Department of Transportation

----- Forwarded by Llans E Taylor/SC/MODOT on 05/03/2013 11:12 AM -----

From: Andrew T Mueller/D8/MODOT  
To: Llans E Taylor/SC/MODOT@MODOT,  
Date: 05/02/2013 08:02 AM  
Subject: Fw: InSync Adaptive Signal System - Public Interest Finding Request

Andy Mueller, P.E.  
Assistant District Engineer , Operations  
Southwest District , MoDOT  
(417) 895-7685  
andrew.mueller@modot.mo.gov  
mobile: (417) 766-3368

----- Forwarded by Andrew T Mueller/D8/MODOT on 05/02/2013 08:02 AM -----

From: Andrew T Mueller/D8/MODOT  
To: Joseph G Jones/SC/MODOT@MODOT,  
Date: 04/11/2013 06:35 PM  
Subject: Fw: InSync Adaptive Signal System - Public Interest Finding Request

Joe,

Here's the PIF we talked about a couple days ago.

Let me know if you need anything else, and thanks!